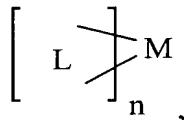


*CLAIM AMENDMENTS*

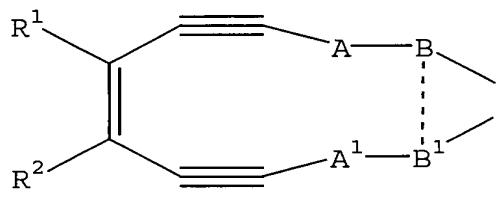
1. (Currently amended) A compound of the formula:



wherein M is a metal selected from the group consisting of Ti, V, Mn, Fe, Co, Ni, Cu, Zn, Ga, Tb, Eu, Gd, Dy, Lu, Zr, Nb, Mo, Te, Ru, Rh, Pd, Ag, Sn, Ta, W, Re, Os, Ir, Pt, and Au;

n is an integer from 1-3;

L is a ligand of the formula:

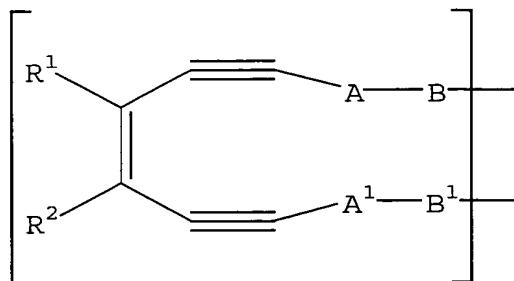


wherein A and A<sup>1</sup> are the same or different and each is independently (CR<sup>12</sup>R<sup>13</sup>)<sub>m</sub>, wherein m is an integer from 0 to 6 and wherein R<sup>12</sup> and R<sup>13</sup> are the same or different and each is hydrogen, halogen, nitro, cyano, azido, an optionally substituted first organic group selected from the group consisting of C<sub>1</sub>-C<sub>6</sub> alkyl or aryl, or a first solubilizing group selected from the group consisting of hydroxyl, an amino or acid addition salt thereof, an ammonium salt, sulfonic acid or salt thereof, or carboxylic acid or salt thereof;

B and B<sup>1</sup> are the same or different and each is a substituent comprising a nitrogen-, sulfur, or oxygen-containing group capable of complexing with M, wherein the dotted line between B and B<sup>1</sup> represents an optional covalent bond linking B and B<sup>1</sup> together;

R<sup>1</sup> and R<sup>2</sup> are the same or different and each is independently a hydrogen, a linear or branched alkyl, an aralkyl, an aryl, a halogen, a nitro, or a cyano, or R<sup>1</sup> and R<sup>2</sup> together with the carbons to which they are bonded comprise an aryl, a heterocycle, or a macrocycle, wherein R<sup>1</sup> and R<sup>2</sup> is unsubstituted or substituted;

wherein when n is 1 or 2, M is optionally complexed with at least one additional ligand other than a ligand of the formula:



~~or a dimer, an oligomer, or a polymer of said compound.~~

2. (Previously presented) The compound of claim 1, wherein at least one of R<sup>12</sup> and R<sup>13</sup> is the first organic group optionally substituted with a halogen, nitro, cyano, azido, a second organic group selected from the group consisting of C<sub>1</sub>-C<sub>6</sub> alkyl or aryl, or a second solubilizing group selected from the group consisting of hydroxyl, an amino or acid addition salt thereof, an ammonium salt, sulfonic acid or salt thereof, or carboxylic acid or salt thereof.

3. (Canceled)

4. (Canceled)

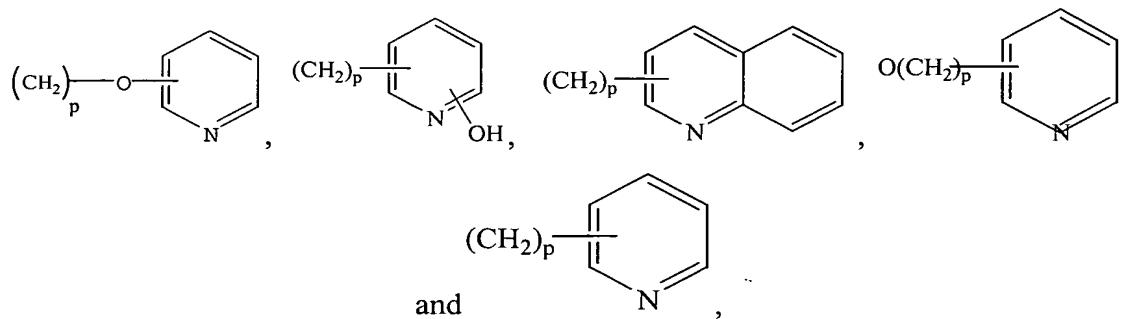
5. (Original) The compound of claim 1, wherein M is copper.

6. (Original) The compound of claim 1, wherein m is 1.

7. (Original) The compound of claim 1, wherein n is 2.

8. (Original) The compound of claim 1, wherein at least one of B and B<sup>1</sup> is a nitrogen-containing group capable of complexing with M.

9. (Previously presented) The compound of claim 1, wherein at least one of B or B<sup>1</sup> is a nitrogen-containing group selected from the group consisting of substituents characterized by the formulas:



and wherein  $p$  is an integer from zero to two.

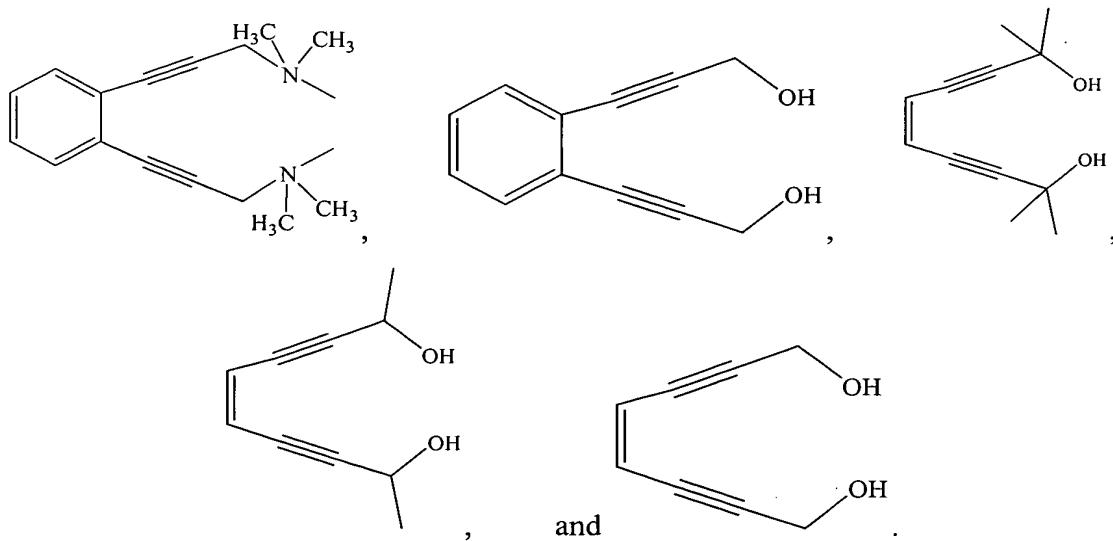
10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Currently amended) The compound of claim 1, wherein the compound includes at least one ligand  $\underline{\text{L}}$  selected from the group consisting of:



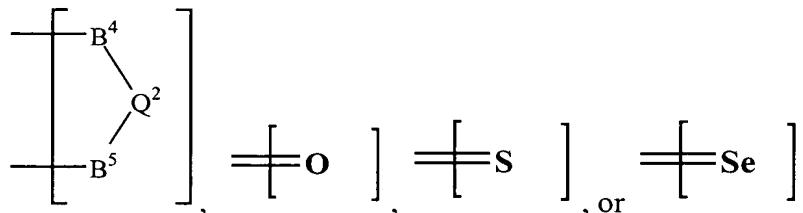
15. (Original) The compound of claim 1, wherein R<sup>1</sup> and R<sup>2</sup> are the same or different and each is independently selected from the group consisting of hydrogen, an alkyl, an aryl, and an aralkyl, or R<sup>1</sup> and R<sup>2</sup> together with the carbons to which they are bonded comprise a benzene ring.

16. (Original) The compound of claim 15, wherein at least one of R<sup>1</sup> or R<sup>2</sup> is substituted with a substituent selected from the group consisting of a halogen, a nitro, and a cyano.

17. (Original) The compound of claim 15, wherein R<sup>1</sup> and R<sup>2</sup> are hydrogen.

18. (Canceled)

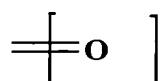
19. (Currently amended) The compound of claim 18 1, wherein said at least one additional ligand includes is a substituent of the formula:



wherein B<sup>4</sup> and B<sup>5</sup> are the same or different and each is nitrogen, oxygen, sulfur, or phosphorus; and Q<sup>2</sup> is an aryl, a heterocycle, a macrocycle, or a C<sub>2</sub>-C<sub>6</sub> alkyl spacer, wherein said aryl, heterocycle, or macrocycle is monocyclic or polycyclic and Q<sup>2</sup> is unsubstituted or substituted.

20.-22. (Canceled)

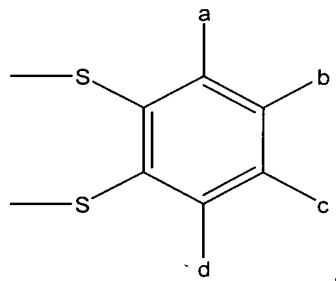
23. (Currently amended) The compound of claim 19, wherein said at least one additional ligand includes is a ligand of the formula:



24. (Original) The compound of claim 19, wherein said Q<sup>2</sup> is bicyclic.

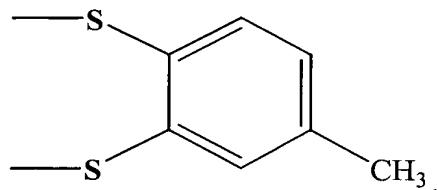
25. (Original) The compound of claim 19, wherein Q<sup>2</sup> is an aryl.

26. (Currently amended) The compounds of claim 25, wherein said at least one additional ligand includes is a ligand of the formula:



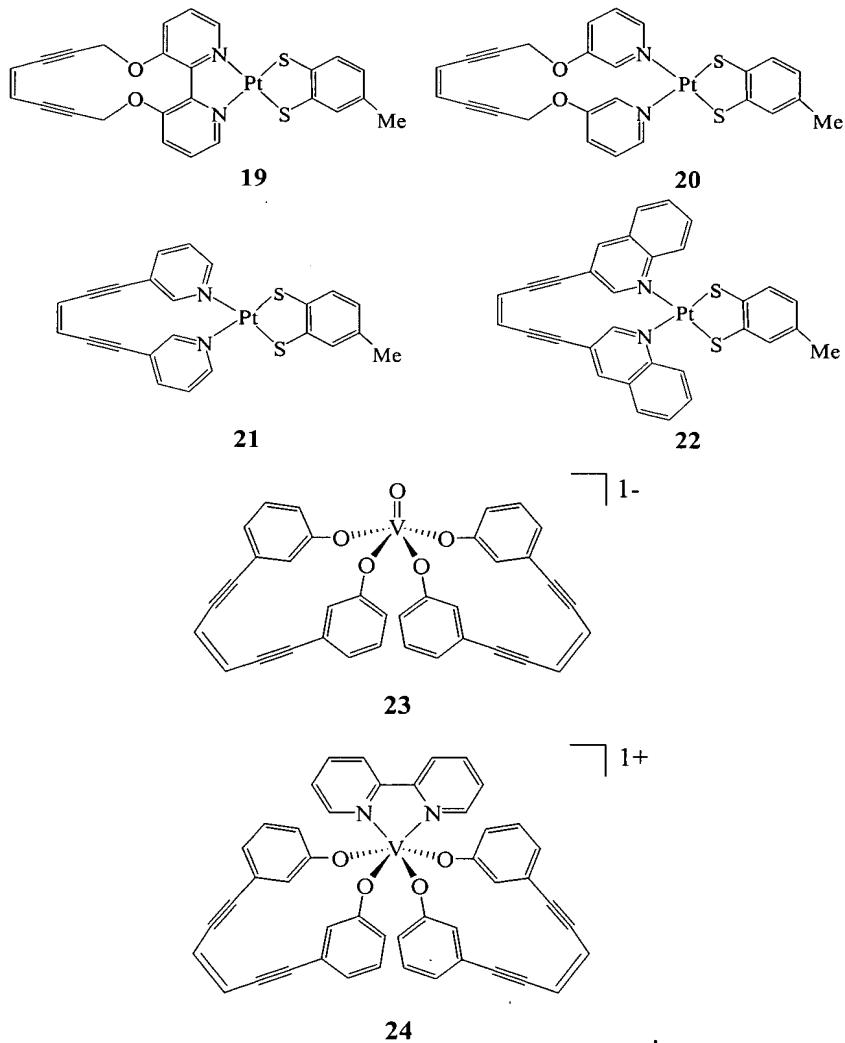
wherein a-d are the same or different and each is selected from the group consisting of hydrogen or alkyl.

27. (Currently amended) The compound of claim 26, wherein said at least one additional ligand includes is a ligand of the formula



28.-36. (Canceled)

37. (Original) The compound of claim 1, wherein the compound is selected from one of the following compounds:



38. (Canceled)

39. (Original) The compound of claim 1, wherein said compound is (1,2-bis(pyridine-3-oxy)oct-4-ene-2,6-diyne)copper(I).

40. (Original) The compound of claim 1, wherein said compound is (1,2-bis(pyridine-3-oxy)oct-4-ene-2,6-diyne)copper(II).

41.-116. (Canceled)